

## **Benchmark Case Study - Hawaii**

(present management system)

### **Conservation Effects Worksheet**

Orchard - Coffee

(land use and crop)

**Resource Setting:** Kealakekua, Hawaii

HUD Honuaulu very stony silty clay loam, 6 - 20% slopes.

Kainaliu Series, very stony & extremely stony silty clay loam, 12 - 20% slopes.

#### **Present Management System:**

No ground cover

Herbicide for weed cover

Coffee planted 8' x 8' or 10' x 10'

#### **Resource Problems Before Treatment:**

Sheet and rill erosion

Sedimentation

Minor gullyng

| <b>ACTIONS</b><br>(Kinds, Amounts, Timing)                              | <b>EFFECTS</b><br>(Effects of Continuing Bench System)  |
|---|---|
| Plant<br>Fertilize<br>Prune after harvest<br>Herbicide for weed control | Soil loss - 11 tons/acre/year<br>Runoff will increase<br>Concentrated flow will for gullies<br>Heavy use of herbicides<br>Soil Compaction<br>Nutrients in surface runoff<br>Decrease in soil organic matter<br>Sedimentation<br>Reduce access over fields during wet season |
| <b>Comments:</b>  |   |